

Rebuild Hawaii Consortium Meeting June 25, 2002

Attendees:

C.H. Guernsey & Co.— Scott Bly; **City & County of Honolulu**—Allyn Lee, Wah-Cheo Sze; **County of Hawaii**— Raymond Carr; **County of Kauai**— Glenn Sato; **Department of Business, Economic Development & Tourism (DBEDT)** – Liz Raman, Howard Wiig, Maria Tome, Steve Alber; **Eco-Lite**— Tom Brennan; **Hawaii Army National Guard**— Kenneth Stacy; **Hawaiian Electric Company, In. (HECO)** – Jim Maskrey, Sam Nichols, Steve Luckett; **Hawaii Electric Light Company, Inc. (HELCO)** – Debra Gomez Ota; **Hickam Air Force Base**— Dave Stiner; **Honolulu City Council**—Steve Holmes; **Housing & Community Development Corporation of Hawaii**—Eric Sakanashi; **Kauai Electric**—Tim Blume; **Marine Corps Base Hawaii**—Kelly Kedge; **Navy PWC Pearl**—Nate Eisenpress; **NORESCO**—Tracy Taoka; **Navy Region Hawaii, Pearl Harbor**—Kevin Saito; **Pacific Division Naval Facilities Engineering**—Eric Kawamoto; **Rebuild America**— Bill Mixon, Ron Shelton; **Sandia National Labs**— Bill Black, David Menicucci; **Strategic Energy Innovations**— Jennifer Webb; **The Gas Company**—Steve Golden, Keith Yoshida, Lynn Ebisui; **Trane**—Rob Bellizzi; **UH Community Colleges**—Maynard Young; **U.S. Department of Energy Pacific Liaison**— Eileen Yoshinaka.

Welcome and Introductions

Consortium President, **Steve Holmes**, welcomes members to the meeting.

New Activity Reports by Consortium Members

Energy 2002 Reports: Glenn Sato, Elizabeth Raman, Kevin Saito, and Scott Bly Those who attended Energy 2002 shared highlights of the conference. The meeting had over a hundred vendors sharing new products and technologies. Attendees were knowledgeable and experienced in the energy field and there was good interaction between speakers and attendees. Palm Springs is a good example of an energy and resource efficient city.

One new product Glenn Sato shared with the Consortium is the MoonCell Street Lamp. It is powered by both solar and wind and features LED's. Glenn is ordering some of these to test them out. You can find more information on these street lamps at www.mooncellusa.com.

Note: Copies of many of the Energy 2002 presentations are located on the web site at <http://www.energy2002.ee.doe.gov/>.

City & County of Honolulu: Steve Holmes and Scott Bly

After they got the cooling tower installed at City Hall they had some interesting system balance problems.

Scott Bly: Combined Heat and Power system.

Heide & Cook doing the installation.

Look forward for City Hall to be a showcase of distributed generation.

Lighting retrofits are on-going.

County of Hawaii: Ray Carr

Honeywell experienced a change over in staff during implementation of the Hilo Public Safety Building retrofit project. This resulted in measures being installed individually over a longer time frame rather than all measures being installed at once. This made for some interesting results. As things were changed out there were noticeable drops in electricity consumption and with each new measure the kWh use drops further. Measures included lighting retrofit, cooling tower and chillers were changed out, and variable speed drives on air handling units were installed. The Hilo Public Safety Building reduced its kWh consumption by 41% and saving nearly \$16,000 a month.

County of Kauai: Glenn Sato

Kauai Lagoons owners are implementing the no-cost recommendations. They are talking to finance people about the measures that cost money. Glenn suggested they work with an ESCO.

Department of Business, Economic Development & Tourism (DBEDT): Elizabeth Raman

Raman put together a booklet that tells you about programs and who to contact in the Energy, Resources, and Technology Division. The booklet is named *Community-Oriented Energy, Resources, and Technology Programs of the Department of Business, Economic Development, & Tourism*.

Lamp Life and the Effects of Switching (handout) examines recent data on the influence of different switching scenarios on lamp lifetime.

If you want copies contact Elizabeth Raman at eraman@dbedt.hawaii.gov or call 587-3806.

Howard Wiig:

Model Energy Code: For every \$1 put in they have achieved \$158 dollars in savings.

Department of Education: Jennifer Webb reported for Gene Fong

The DOEd is moving along with lighting retrofits as a part of their on-going repair and maintenance work.

The Gas Company: Steve Golden

Workshops on emerging new gas technologies will be held during the first two weeks in December 2002. These workshops will be conducted on the neighbor islands.

Hawaii Army National Guard: Kenneth Stacy

RFP finalists were selected and by July should complete interviews.

Hawaiian Electric Company (HECO): Sam Nichols

The residential and new construction CFL program starts in July 2002. In October 2002 they will be giving away 33,000 low-flow showerheads for free. Energy Smart Schools is starting in Fall 2002 at McKinley and Radford.

Hawaii Electric Light Company (HELCO): Debra Gomez-Ota

In the process of installing an Air Marine 400 wind generator on our PV trailer to use for demonstration purposes.

Judiciary: Elizabeth Raman

Selected Johnson Controls as the performance contractor. They have started to audit the facility's lighting.

U.S. Department of Energy (DOE): Eileen Yoshinaka

FEMP has agreed to bring the energy management course to Hawaii; probably sometime in January 2003.

Housing and Urban Development: Eileen Yoshinaka reported for Mike Flores

An energy bill, S. 517, Senator Corzine (D-NJ) introduced an amendment that would establish an Office of Energy Management at HUD. This would give Public Housing Agencies, like HCDCH, financial incentives to increase the energy-efficiency of their buildings and to install more energy efficient appliances and equipment and would require all new public housing construction to meet current energy codes.

The interim rule for the Native Hawaiian Housing Block Grant was issued on June 13, 2002 and makes available \$9.6 million in block grants for the Department of Hawaiian Home Lands (DHHL). DHHL would propose through a HUD-approved housing plan, how the money will be used. Another \$10 million is in the HUD budget for 2003. The funds can be used for various housing activities, including energy-related improvements on rehabilitation work.

Eco-Lite: Tom Brennan

Hawaii Hospitality Summer 2002 Magazine features a section called Power Partners that looks at what some major hotels in Hawaii have done to increase energy efficiency. There is also a section that looks at energy-efficient lighting.

The StairLite Tom mentioned at the last meeting is going to be installed in the Federal Building. They wanted to add solar as the source of energy for the StairLites so in the case of power outages the lights in the stairwells would still work.

Air Force: Dave Stiner

They ordered 40 Berkeley lamps to test at Hickam; they should arrive in July. Lighting loggers have been installed in test areas.

120 vending misers were purchased and will be installed on all vending machines at Hickam. This initiative should result in a 1/3 reduction in energy used by vending machines.

Solar lit bollards will be installed along a 1.5 mile pathway. The pathway runs through a low fly zone where conventional lighting would not be feasible. The lights are autonomous of the grid while improving safety and security in this area that previously has no lighting at all.

(ESPC) Honeywell has started implementation of a number of energy and water conservation initiatives in Task order II.

A proposal for the sale of chilled water to building 1102 has been presented at the Energy Management Steering Group Meeting and has been submitted as Phase I of a Task order III ESPC project.

Rebuild America Products & Services

Bill Mixon, Program Manager

Ron Shelton, Technical Assistance Coordinator

Presented on products and services available through Rebuild America.

View Presentations 1 and 2 at: <http://www.hawaii.gov/dbedt/ert/rebuild/news.html>.

Federal Energy Management Program (FEMP) Products & Services; Security and Distributed Energy Resources

David Menicucci and Bill Black, Sandia National Laboratories

Spoke about new solar technology being tested in military environments for both military and tactical uses and will provide information on base energy security, including vulnerabilities in the energy supply system and how Renewables and Distributed Energy Resources can be used to increase overall energy security.

View Presentation 3 at: <http://www.hawaii.gov/dbedt/ert/rebuild/news.html>.

HECO Products & Services

Jim Maskrey, HECO

The Enhanced Monitoring Services (EMS) records energy usage for large customers (over 200 kW and above). A digital meter stores data on a customer's energy use over a period of time. PowerTrax allows the customer to track and review the data to identify the load profile of a particular facility. This can help them to determine if there are opportunities for load shifting or load curtailment. Customers can remotely access the data through an analog phone line. Contact your HECO account manager to learn more about this service.

Access more information about EMS at:

<http://www.heco.com/CDA/default/0,1999,TCID%253D3%2526EmbedCID%253D0%2526CCID%253D2380%2526LCID%253D2459%2526CTYP%253DARTC,00.html>.

GASCO/Kauai Electric Products & Services

Steven Golden and Keith Yoshida, GASCO and Tim Blume, Kauai Electric

Provides both utility and non-utility service on all islands except Lanai where they provide non-utility service. Utility service is regulated by the Public Utilities Commission and the non-utility is on site tanks or cylinders with propane and receive service on site. Steven noted that they do have the capability to produce a limited amount of hydrogen in their synthetic natural gas plant. As a future with fuel cells becomes more prevalent then there will be more demand for hydrogen. Unlike Kauai Electric, The Gas Company has no DSM programs. This is because their synthetic natural gas plant has enough excess capacity that they would not avoid building for new capacity by implementing DSM programs. Kauai Electric has two DSM programs, one in the residential sector and one in the commercial sector, which have been active since 1998.

View Presentation 4 at: <http://www.hawaii.gov/dbedt/ert/rebuild/news.html>.

New Products

Tom Brennan, Eco-Lite

Tom presented a new product, the Isole plug load controller. Find out more at www.wattstopper.com or call Tom at 808-923-4271.

Upcoming Workshops and Events

- Environmental Purchases and Practices, July 18, 2002, 8 a.m. - 4 p.m. at the Hilton Hawaiian Village. For more information contact Cynthia McKeague or Melinda Eyre at 808-541-1776.
- Rebuild America National Forum will be held July 29-August 1, 2002 in New Orleans, LA. For more information go to www.2002conference.com.
- Building Life-Cycle Cost Training Course will be held August 1, 2002, 8 am - 4 pm at 820 Ward Avenue, HECO classroom B. Workshop cost is \$25 and to register contact Marsha Saiki at 808-543-4743.
- Green Building International Conference will be held November 13-15, 2002 in Austin, Texas. For more information visit www.usgbc.org
- Hawaiian Electric Company's Energy Expo will be held October 23-24, 2002 at the Sheraton Waikiki Hotel. For more information call 543-4790 or visit www.heco.com and click on "Special Events."

Jennifer Webb prepared these minutes.